

# Bellevue's Approach to Traffic Calming



## Context Sensitive Design

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# A Two Phase Program Approach

## ■ Phase I

- Education
- Engineering
- Enforcement



## ■ Phase II

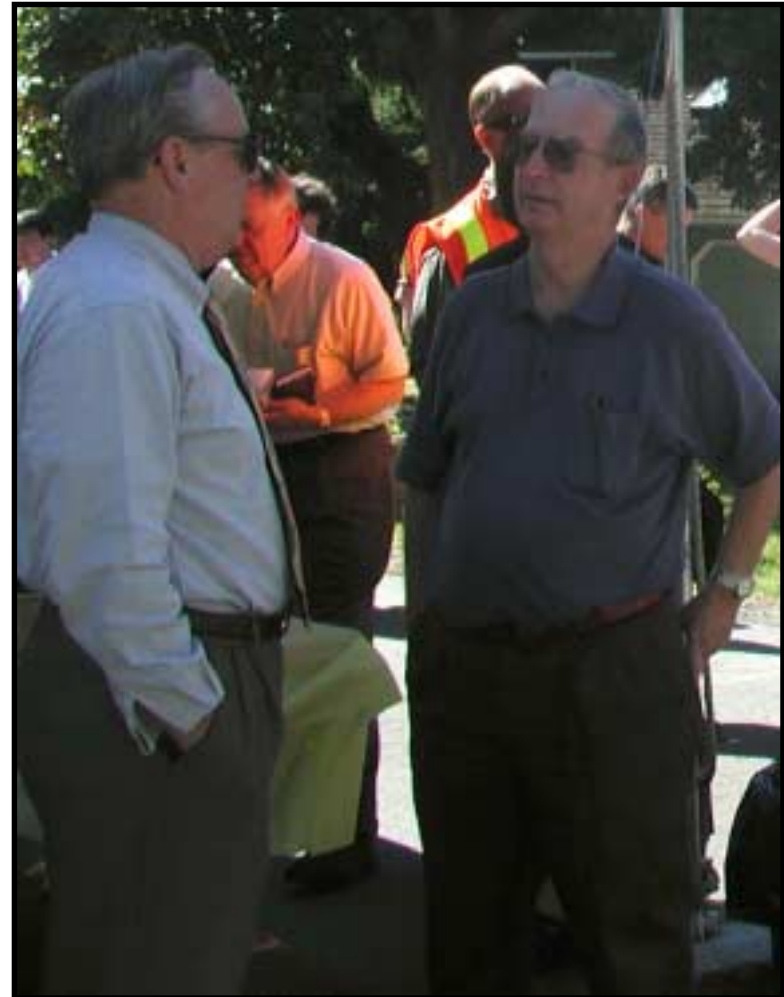
- Speed Humps
- Traffic Circles
- Curb Extensions
- Medians
- Raised Crosswalks



# Meaningful Public Involvement

## Building Community

- Survey neighborhood regarding concerns
- Form Traffic Committee
- Educate and Inform Traffic Committee on policies and guidelines
- Develop Traffic Plan



# Meaningful Public Involvement Empowerment

- Survey neighborhood to measure support
- Traffic Committee can take initiative
- If 65% of respondents support plan, move forward to final design and construction



# Neighborhood Survey

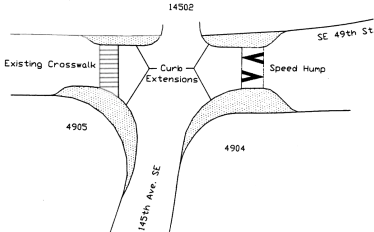
## Identifying Tradeoffs

- Includes overview of project
- List Pros and Cons of proposed devices
- Traffic Committee can produce their own publication and/or generate support outside City survey

# NEIGHBORHOOD TRAFFIC *news*

## **CURB EXTENSIONS**

Curb extensions narrow the roadway by extending the curb toward the center of the street, and can be used at intersections or mid-block between intersections. They can also be used in conjunction with speed humps to enhance the effectiveness of these designs.



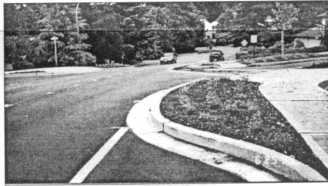
The diagram illustrates a street intersection. A vertical street labeled '145th Ave. SE' runs through the center. It intersects with a horizontal street labeled 'SE 49th St.' at the top. To the left of the intersection, a street labeled '4905' branches off. To the right, a street labeled '4904' branches off. The diagram shows 'Existing Crosswalk' areas on the horizontal street. 'Curb Extensions' are shown as shaded areas extending from the sidewalks into the travel lanes of the horizontal street. A 'Speed Hump' is indicated by a series of triangles on the horizontal street, located between the intersection and the right side of the diagram.

### **Advantages**

- Narrowed lanes can slow vehicles
- Shortens the pedestrian crossing distance
- Enhances pedestrian visibility
- Provides opportunity for landscaping
- May divert traffic to adjacent arterial streets (discourage non-local traffic)

### **Disadvantages**

- Requires removal of on-street parking at the curb extension locations (The City will only install curb extensions that are supported by the adjacent residents.)




A black and white photograph showing a street intersection. A white curb has been extended from the sidewalk into the roadway, narrowing the lane. There is some landscaping with trees and bushes on the right side of the road. A car is visible in the distance on the road.

*Example: Curb extensions at the intersection of SE 46th Way and 155th Avenue SE in the Whispering Heights/Collingwood Neighborhood.*

## ***How will this plan affect emergency response?***

The traffic calming process in Bellevue includes a review of any potential projects by various public safety officials. This review is intended to identify possible adverse impacts to public safety. As you might imagine, any device intended to slow vehicle traffic impacts the ability of the fire department to respond to emergencies, particularly when the installation contains multiple devices that create a cumulative effect. In addition to emergency response delay, speed humps can also negatively impact patient care during the transport to the hospital. A review of this proposed project indicates that each speed hump will result in an emergency response delay of between 2 and 9 seconds, depending on the response vehicle type.



A decorative border at the bottom of the page featuring various icons: a sun, a car, a house, a person, a bicycle, a stroller, a car, a house, a person, a bicycle, a stroller, a car, a house, a person, a bicycle, a stroller, a car, a house, a person, a bicycle, a stroller.



# Innovative Design Solutions

## NE 16th Street - Crosswalk Enhancement

### ■ Concerns

- Excessive vehicle speeds
- Pedestrian visibility

### ■ Involve Stakeholders

- Local Residents
- Bellevue School District/PTSA



- **Raised Crosswalk**  
(Elongated Speed Hump)
- **Curb Extensions**
- **Bollard's with Educational Plaques**

# Innovative Design Solutions

## 161st Avenue SE - Traffic Calming Plan

### ■ Concerns

- Excessive vehicle speeds
- Cut-through traffic

### ■ Stakeholders

- Local Residents
- Metro Transit
- Fire and Police Department



- Elongated Speed Humps
- Realigned Intersection
- Entry Median

# Innovative Design Solutions

## 164th Avenue NE - Speed Cushions

### ■ Concerns

- Excessive vehicle speeds
- Cut-through traffic

### ■ Stakeholders

- Local Residents
- Bellevue School District
- Fire and Police Departments



### ■ Speed Cushions



# Context Sensitive Design

## Elements of Success

- Support of City Leadership
- Partnership with the community
- Consultant Support
- Commitment of City Resources